(d) Other engine dynamometer system calibrations such as speed are performed as specified by the dynamometer manufacturer or as dictated by good engineering practice.

§ 90.307 Engine cooling system.
An engine cooling system is required with sufficient capacity to maintain the engine at normal operating temperatures as prescribed by the engine manufacturer. Auxiliary fan(s) may be used to maintain sufficient engine cooling during engine dynamometer operation.

§ 90.308 Lubricating oil and test fuels.
(a) Lubricating oil. Use the engine lubricating oil which meets the engine manufacturer's specifications for a particular engine and intended usage.
(1) Manufacturers must use engine lubricants representative of commercially available engine lubricants.
(2) For 2-stroke engines, the fuel/oil mixture ratio must be that which is recommended by the manufacturer.
(b) Test Fuels—Certification. (1) The manufacturer must use gasoline having the specifications, or substantially equivalent specifications approved by the Administrator, as specified in Table 3 in Appendix A of this subpart for exhaust emission testing of gasoline fueled engines. As an option, manufacturers may use the fuel specified in 40 CFR part 1065, subpart H, for gasoline-fueled spark-ignition engines. The alternative fuels, such as natural gas, propane, and methanol, used for exhaust emission testing and service accumulation of alternative fuel spark-ignition engines must be representative of commercially available alternative fuels.
(1) The manufacturer shall recommend the alternative fuel to be used for certification testing and engine service accumulation in accordance with paragraph (b)(3) of this section.
(ii) Information acceptable to the Administrator is provided to show that only the designated fuel would be used in customer service; and
(iii) Fuel specifications are approved in writing by the Administrator prior to the start of testing.
(c) Test fuels—service accumulation and aging. Unleaded gasoline representative of commercial gasoline generally available through retail outlets must be used in service accumulation and aging for gasoline-fueled spark-ignition engines. As an alternative, the certification test fuels specified under paragraph (b) of this section may be used for engine service accumulation and aging. Lead fuel may not be used during service accumulation or aging.

§ 90.309 Engine intake air temperature measurement.
(a) The measurement location must be within 10 cm of the engine intake system (i.e., the air cleaner, for most engines.)
(b) The temperature measurements must be accurate to within ±2°C.

§ 90.310 Engine intake air humidity measurement.
This section refers to engines which are supplied with intake air other than the ambient air in the test cell (i.e., air which has been pumped directly to the engine intake air, the ambient test cell air, the ambient test cell humidity measurement may be used.
(a) Humidity conditioned air supply. Air that has had its absolute humidity altered is considered humidity-conditioned air. For this type of intake air supply, the humidity measurements must be made within the intake air supply system and after the humidity conditioning has taken place.
(b) Unconditioned air supply. Humidity measurements in unconditioned intake air supply systems must be made in the intake air stream entering the supply system. Alternatively, the humidity measurements can be measured within the intake air supply stream.